

**IN THE CLAIMS**

Please amend the claims as follows:

1. (Original) A processor comprising:  
a plurality of functional units including a first functional unit and a second functional unit, the first functional unit to receive instructions, to determine whether ones of the instructions are associated with a virus, and to transmit the ones of the instructions not associated with the virus to the second functional unit.
2. (Original) The processor of claim 1, wherein the first functional unit is a virus detection unit, and wherein the second functional unit is a fetch and decode unit.
3. (Original) The processor of claim 1, wherein the first functional unit includes,  
a virus information unit to store virus information; and  
a virus detection engine to compare each of the instructions to the virus information.
4. (Original) The processor of claim 3, wherein the virus detection unit includes an authentication unit to authenticate a source of the virus information.
5. (Original) The processor of claim 1, wherein the first functional unit includes a virus information unit, the virus information unit to store a state machine that is to determine whether ones of the instructions are associated with a virus.
6. (Original) The processor of claim 1, wherein the first functional unit is a virus detection unit and wherein the second functional unit is a dispatch and execution unit.

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7. (Original) A apparatus comprising:
- an instruction cache to store instructions;
  - a virus detection unit to receive the instructions from the instruction cache, the virus detection unit to determine whether ones of the instructions are associated with a virus; and
- a dispatch and execution unit to receive from the virus detection unit the ones of the instructions that are not associated with the virus.
8. (Original) The apparatus of claim 7, wherein the virus detection unit includes a virus information unit to store virus signatures, the virus detection unit to compare each of the instructions to the virus signatures.
9. (Original) The apparatus of claim 8, wherein the virus detection unit includes an authentication unit to authenticate a source of the virus signatures.
10. (Original) The apparatus of claim 7, wherein the virus detection unit includes a virus information unit to store state information, the virus detection unit to input each of the instructions into a state machine.
11. (Original) A method comprising:
- receiving an instruction in a first functional unit of a processor pipeline;
  - determining whether the instruction is associated with a virus; and
- after determining the instruction is not associated with a virus, transmitting the instruction to a second functional unit of the processor pipeline for further processing.
12. (Original) The method of claim 11, wherein the determining whether the instruction is associated with a virus includes, comparing the instruction to virus signatures stored in the first functional unit.

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13. (Original) The method of claim 11, wherein the determining whether the instruction is associated with a virus includes inputting the instruction into a state machine stored in the first functional unit.
14. (Original) The method of claim 11 wherein the virus is a polymorphic virus.
15. (Original) The method 11, wherein the first functional unit is a virus detection unit, and wherein the second functional unit is a fetch and decode unit.
16. (Original) The method of claim 11, further comprising:  
after determining the instruction is associated with a virus, removing the instruction from the processor pipeline.
17. (Original) The method of claim 11, wherein the instruction has been partially processed by a set of one or more functional units of the processor pipeline.
18. (Original) A processor comprising:  
an instruction cache to store instructions;  
a virus detection unit to receive the instructions from the instruction cache, the virus detection unit to transmit ones of the instructions that are not associated with a virus, the virus detection unit including,  
a virus information unit to store virus signatures and state machine information;  
an authentication unit to authenticate the source of the virus signatures and the state machine information; and  
a virus detection engine to compare certain of the instructions to the virus signatures, and to input certain of the instructions into a state machine configured according to the state machine information;  
a fetch and decode unit to receive ones of the instructions from the virus detection unit;  
and

a set of one or more execution units to receive ones of the instructions from the fetch and decode unit and to execute the ones of the instructions.

19. (Original) The processor of claim 18, wherein the virus detection engine determines whether ones of the instructions are associated with the virus.

20. (Original) The processor of claim 18, wherein the virus is a polymorphic virus.

21. (Original) A system comprising:

a synchronous dynamic random access memory (SDRAM) unit;

a processor coupled to the SDRAM unit, the processor including,

a plurality of functional units including a first functional unit and a second functional unit, the first functional unit to receive instructions, to determine whether ones of the instructions are associated with a virus, and to transmit the ones of the instructions not associated with the virus to the second functional unit.

22. (Original) The system of claim 21, wherein the first functional unit is a virus detection unit, and wherein the second functional unit is a fetch and decode unit.

23. (Original) The system of claim 21, wherein the first functional unit is a virus detection unit and wherein the second functional unit is a dispatch and execution unit.

24. (Original) The system of claim 21, wherein the first functional unit includes,

a virus information unit to store virus information; and

a virus detection engine to compare each of the instructions to the virus information stored in the processor.

25. (Original) The system of claim 21, wherein the virus detection unit includes an authentication unit to authenticate a source of the virus information.

26. (Original) The system of claim 21, wherein the first functional unit includes a virus information unit, the virus information unit to store a state machine for determining whether ones of the instructions are associated with a virus.